No.



9700011

THE WALKED SHAYES OF AMERICA

TO ALL TO WHOM THESE; PRESENTS SHALL COME;
Aphri Cech Seed International, A Unit of Monsanto Company

DECEMS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY COTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (I) SHALL BE SOLD BY VARIETY NAME ONLY AS A SOF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THIS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'Oro Blanco'

In Testimonn Mexect, I have hereunto set my hand and caused the seal of the Hant Bariety Protection Fixed to be affixed at the City of Washington, D.C. this thirtieth day of September, in the year of our Lord one thousand nine hundred and ninety-nine.

Roll W. Schland

Acting Commissioner Plant Variety Protection Office Agricultural Marketing Service Sarfy of Agrantin Miller United

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFI	ice	The following statements are m. 1974 (5 U.S.C. 552a).	ade in accordance with the Privacy Act
APPLICATION FOR PLANT VARIETY PROTECTION (Instructions and information collection burden stateme		Application is required in order certificate is to be issued (7 U.S. until certificate is issued (7 U.S.)	to determine if a plant variety protect .C. 2421). Information is held confiden C. 2426).
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR	3. VARIETY NAME
HybriTech Seed International, a unit Monsanto Company	of	EXPERIMENTAL NUMBER W88-2619W	Oro Blanco
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Countr			
5912 N. Meridian Street	ואו	5. TELEPHONE [include area code]	FOR OFFICIAL USE ONLY
Wichita, Kansas 67204-1699		316-755-1249	9700011
		316-755-0072	DATE L L L L L L L L L L L L L L L L L L L
. GENUS AND SPECIES NAME	8. FAMILY NAME (Botani	ica()	G FUNG AND EXAMINATION FEE
Triticum aestivum	Grami	neae	: GEEG ,2450?
CROP KIND NAME (Common name)			5 PARE 15 100
Hard White Winter Wheat			R SECTIFICATION FEE:
. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION	ON (corporation, partnersh	ip, association, etc.) [Common name]	E /// /
IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	V F DATE
Delaware		1933	· V/,/65
NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE	E IN THIS APPLICATION A	NO RECEIVE ALL PAPERS	14. TELEPHONE (include area code)
Dr. Gordon Cisar P.O. Box 1320 OR 806 N. Second Street Berthoud, CO 80513 CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow Insti	806 N. Secon P.O. Box 30 Berthoud, Co		16. FAX (Include area code) 970-532-2035
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Exhibit A. Origin and Breeding History of Oro Blanco

Oro Blanco was an F3 derived single plant selection from the crossVona /3/ Nadadores 63 / CO652643 // Centurk /4/ Rio Blanco. CO652643 was an F3 line (plot 65F2643) grown at the Fort Collins Experiment station in 1965 by Dr. Byrd Curtis. It originated from an F2 plant selected at Fort Collins in 1964 from plot 64F2466. The F1 (N62160) seed of this cross was obtained by Dr Curtis from the Nebraska Experiment Station, courtesy of Drs. John W. Schmidt and Virgil A. Johnson in the summer of 1963. The pedigree of CO652643 is Parker /4/ Nebred /3/ Cheyenne // Kenya / Mentana. Dr. Curtis made the following additional crosses: Nadadores 63 / CO652643 // Centurk. The F2 generation of this cross was made available to Agripro Seeds, Inc. (formerly North American Plant Breeders) for random plant selection. The selected plants were bulked and evaluated as an F3 population in 1973 at Berthoud, CO. An F5 plant selection was made from this population in Berthoud, CO in 1975 on the basis of high tillering capacity and good leaf complex scores. This selection was subsequently tested in replicated trials under the experimental designation, W76-1141. W76-1141 was crossed to Vona in 1977 at Berthoud, CO. An F3 plant selection was made from this population on the basis of medium maturity and the absence of leaf rust in 1979 and subsequently tested in replicated trials under the experimental designation, W81-133. The final cross to Rio Blanco was made in 1984 in Berthoud, Colorado. In 1987 an F3 plant selection, based upon plant height, fertility, and absence of leaf rust, was made at Berthoud, Colorado. The resulting F4 plant row was tested in preliminary yield trials in 1988 and has been subsequently tested in replicated trials from 1989 through 1995. These replicated trials represent a broad geographic area in the Hard Winter Wheat region. Oro Blanco has been tested in selected university trials and in the Southern Regional Performance Nursery under the designation W88-2619W.

In 1992, 96 headrows were planted in Berthoud, Colorado. The rows with uniform appearance were individually harvested and planted as a progeny row increase that produced 3,600 pounds of breeder seed. A95 acre breeder seed increase was planted in 1995 which produced 457,200 pounds of foundation seed.

Oro Blanco was uniform and stable in 1994 and 1995. Less than 0.8% of the plants were rogued from the initial seed increase field in 1994. Approximately 80% of the rogued variant plants were taller height wheat plants (6 to 15 cm's), 5% were a blue-green plant color at boot stage and 5% were awnletted wheat plants. Up to 1% variant plants may be encountered in subsequent generations.

Exhibit B. Statement of Distinctness

Oro Blanco most closely resembles the hard white wheat 'Rio Blanco'. However, it can be easily distinguished by the follow morphological characteristics:

- 1.) Oro Blanco has a recurved flag leaf at boot stage (Berthoud, Colorado 1992, 1993 and 1994). Rio Blanco has an erect flag leaf at boot stage (Berthoud, Colorado 1992, 1993, 1994).
- 2.) Oro Blanco has an apiculate shoulder shape on its glume (Berthoud, Colorado 1992, 1993, 1994). Rio Blanco has an oblique shoulder shape on the glume (Berthoud, Colorado 1992, 1993, 1994).

U.S DEPARTMENT OFAGRICULTURE AGRICULTURAL MARKETING SERVICE COMMODITIES SCIENTIFIC SUPPORT DIVISION BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY WHEAT (Triticum Spp.)

AME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
HybriTech Seed International, a unit of Monsanto Com	Para Variance Q 7 0 0 0 1 1
DDRESS (Street and No. or R.F.D. No., City, State, and Tip Code)	Proprometer 9700011
5912 N. Meridian Street	VARIETY NAME OR TEMPORARY DESIGNATION
Wichita, Kansas 67204-1699	Oro Blanco
ace the appropriate number that describes the varietal character of this variety in the boxe ace a zero in the first box (e.g. or) when number is either 99 or less or 9	s below. or less.
KIND:	
1 = COMMON 2 = DURUM 3 = CLUB 4 = OTHER (SPECIFY)	
VERNALIZATION:	
1 = SPRING 2 = WINTER 3 = OTHER (SPECIFY)	
COLEOPTILE ANTHOCYANIN:	
1 = ABSENT 2 = PRESENT	
UVENILE PLANT GROWTH:	
1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT	
PLANT COLOR (boot stage):	
1 = YELLOW-GREEN 2 = GREEN 3 = BLUE-GREEN	
LAG LEAF (boot stage):	
1 = ERECT 2 = RECURVED	
1 - Noting	
1 = NOT TWISTED 2 = TWISTED AR EMERGENCE:	
NUMBER OF DAYS EARLIER THAN Rio Blanco	**************************************
NUMBER OF DAYS LATER THAN	•
NTHER COLOR:	
1=YELLOW 2=PURPLE	
LANT HEIGHT (from soil to top of head, excluding awns)	
oro Blanco=69cm o	or equal in height to Rio Bla
cm. SHORTER THAN	

^{*} Relative to a PVP-approved commercial variety grown in the same trial.

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Exhibit C (Wheat) Page 2
                                       'Oro Blanco'
 10. STEM:
                                                                                          9700011
          A. ANTHOCYANIN
               I = ABSENT
                           2 = PRESENT
         B. WAXY BLOOM
        2
               1 = ABSENT
                           2 = PRESENT
         C. HAIRINESS (last internode of rachis)
        2
              1 = ABSENT
                           2 = PRESENT
         D. INTERNODE (specify number)
              1=HOLLOW 2=SEMI-SOLID
                                             3 = SOLID
         E. PEDUNCLE
              1 = ERECT
                           2 = RECURVED
        3
                 cm. PEDUNCLE LENGTH
11. HEAD (at Maturity):
       A. DENSITY
       2
              1 = LAX
                          2 = MIDDENSE
                                             3 = DENSE
       B. SHAPE
        1
             1 = TAPERING 2= STRAP 3 = CLAVATE 4 = OTHER (specify).
       C. CURVATURE
             1 = ERECT
                           2 = INCLINED
                                             3 = RECURVED
      D. AWNEDNESS
       4
             1 = AWNLESS 2 = APICALLY AWNLETTED 3 = AWNLETTED 4 = AWNED
12. GLUMES (at Maturity):
      A. COLOR
       1
             1 = WHITE
                              2 = TAN
                                            3 = OTHER (specify).
      B. SHOULDER
       6
             1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE
      C. BEAK
             1 = OBTUSE
                            2=ACUTE
                                            3=ACUMINATE
      D. LENGTH
       2
             1 = SHORT (ca. 7mm) 2 = MEDIUM (ca. 8mm) 3 = LONG (ca. 9mm)
      E. WIDTH
       . 1
             1 = NARROW (ca. 3mm) 2 = MEDIUM (ca. 3.5mm) 3 = WIDE (ca. 4mm)
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0

0

RUSSIAN APHID (Res. genes)

OTHER (specify)

Exhibit D. Additional Description of Oro Blanco

Oro Blanco is a hard white winter wheat bred and developed by Agripro Seeds, Inc. By contractual agreement the variety 'Oro Blanco' is currently owned by HybriTech Seed International, a unit of Monsanto Company. Oro Blanco is a high yielding, strong strawed, medium height semidwarf with early maturity. Oro Blanco is moderately susceptible to leaf rust.

Juvenile growth habit is semi-erect. Plant color at boot stage is green. Anther color is yellow. The flag leaf at boot stage is recurved and twisted. Auricle anthocyanin and auricle hairs are present. Waxy bloom is present on the stem, flag leaf sheath and head. The head is tapering, middense and awned. The glume at maturity is medium in length and narrow in width with apiculate shoulder shape and acuminate beak. Seed shape is ovate. Brush length is medium. Seed crease width is narrow and depth is shallow.

Oro Blanco is adapted to western Kansas, southwestern Nebraska, eastern Colorado, western Oklahoma, and western Texas.

Summary Hard White Winter Wheat Data

11.				1
	SSMV	P	- φ	
	SBMV	4	- ო	
	WSMV	. 1 .	• /- ••a.	
Hessian	è	a	. ເ Ω	
Powdery	Mildew	-	_	
Rust	Reaction	8	7	
Stem	Severity	3	K)	
Rust	Reaction	8	80	
Leaf	Severity	9	ထ	
Straw	Strength	co	Ω.	
	Height	က	ო	
	Coleoptile	9	ιO	
	Maturity	က	ល	
	Heading	က	4	
	Var./Line	Oro Blanco	Rio Blanco	
				**

Data generated in 1988:

Berthoud, CO - Yield, Test Wt. Height, Lodging Severity (straw strengifi), Maturity, Pollination,

Hessian fly (grnhse, screening) Powdery Mildaw, Leaf Rust, Stem Rust (grnhse, screening) Salina, Ks - Yield, Test Wt.

Everest, KS - Sollborne Mosalo

Data generated in 1989

Berthoud, CO - Yield, Fest Wt., Height, Heading Date, Stem Rust (grnhse. & field), Leaf Rust (grnhse) Nardin, OK - Yield,m Test Wt., Height, Maturity, Lodging Severity (straw strength), Leaf Rust (field) Gardèn City, KS - Yield, Test Wt.

Geneva, NE - Yield, Test Wt., Helght

Data generated in 1990:

Berlhoud, CO - Helght, Heading, Anthesis, Coleoptile (gmhse. screening)

Dumas, TX - Growth habit, Heading

Salina, KS - Leaf Rust

Grant, NE-Sollborne Mosaic Virus

Hays, KS - WSMV (Visual screening - Dr.T.) Martin).

Data generated in 1991;

Berthoud, CO - Heading, Pollination, Leaf Rust

Dumas, TX - Heading

Wichita, KS - Heading, Leaf Rust

Everest, KS - Sollborne, Spindle Streak

Salina, KS - Leaf Rust

Hays, KS - WSMV (Visual screening - Dr.T.J Martin). Imperial, NE - Leaf Rust

Data generated in 1992;

for Screening Berthoud, CO - Yield, Test Wt., Heading, Height, Pollination, Greenhouse

Coleoptile, Tan Spot, Powdery Mildew, and Hesslan fly Salina KS - Yield, Test Wt.,

Rome, KS - Spindle Streak

Hays, KS - WSMV (Visual screening - Dr.T.J Martin).

Wichita, KS - Yield, Test Wt., Septorla

Data generated in 1993:

Berthoud, CO - Yield, Test Wt., Heading, Pollination, Maturity, Height

Garden City, KS - Yield, Test Wt.

Geneva, NE - Soliborne

Imperial, NE - Yield, Test Wit., Lodging

Wichita, KS - Yield, Test Wit., Septoria, Tan spot

Data generaled in 1994:

Berthoud, CO - Yield, Test Wt., Heading, Pollination, Maturity, Height,

Leaf Rust (greenhse screening), Powdery Mildew

Garden City, KS - Yield, Test Wt., Leaf Rust

Goodland, KS - Yield, Test Wit., Lodging, Wheat Streak

Nardin, OK - Leaf Rust, Septoria, Tan spot Dumas, TX - Yield, Test Wt.

Hereford, TX - Heading

Hays, KS - WSMV (Visual screening).

Data generated in 1995:

Berthoud, CO - Yeld, Test Wit, Heading, Leaf Rust, Lodge Severity,

Powdery mildew

Goodland, KS - Yield, Test Wt., Lodge Severity Beloft, KS - Yield, Test Wit., Tan Spot

Salina, KS - Heading, Septoria

Mosaic Virus Everest, KS - Spindle Streak, Soilborne Saint John, KS - Spindle Streak

Dumas, TX - Test Wt.

Wichita, KS - Leaf Rust, Tan Spot

Note: Rankings in this table represent the average for a given trait on a 1-9 scale where 1 and 9 represent the extremes for the repective trafts. weak 护 strong earty <u>g</u>ro short a earty Straw Strength Coleoptille 世 Heading Maturity Height

Insect ratings

All disease &

susceptible

resistant

8	
-	
TEAR	

Hand	HAND				FLOU	FLOUR/WHEAT QUAL	YE OUR	TLILL	3							MAKTING	BAKING QUALITY	17				•	
HANGO TID AST TING HT TOL ABS TING MIX LOAF WOL GR TX OOL ALL	HAN HAND H					1				MIXOG	WW.									CRUMB	1		
14/2mb R	12.7 4 59 66.7 6 4.22 6.00 5.5 134 4 66.0 3 6.00 3 910 3 4 2 3 43 11.0 7 55 69.4 5 .25 1 1379 5 65.0 6 4 5.25 1 800 4 5 3 3 47 10.0 7 55 69.4 5 .25 1 1379 5 65.0 6 4.25 1 750 4 2 2 2 42 11.1 5.5 54 68.8 5.0 44.0 4.75 5.2 1277 3.5 63.3 4.8 4.8 1.5 820 3.7 3.7 2.3 2.7 44 11.1 5.5 54 68.8 5.0 4.00 5.0 1104 6 66.0 3 4.25 3 835 4 6 3 3 51 4 1 11.1 5.0 54 71.2 3.3 502 1 175 4 5 65.0 104 6 66.0 3 4.25 3 835 4 6 3 3 51 4 1 11.1 5.0 54 71.2 3.3 502 3.5 5.0 1124 6 65.0 3 4.25 3 835 4 6 3 3 51 4 1 11.1 5.0 54 71.2 3.3 502 3.5 5.0 1247 2 61.0 6 3.50 1 770 4 2 2 2 4 1 1 1 1 5.0 54 71.2 3.3 502 3.5 5.0 1244 5 66.0 3 4.25 3 835 4 6 3 3 51 4 1 1 1 5.0 54 71.2 3.3 502 3.5 5.0 1244 5 65.0 5 6.0 783 4.8 4.3 3.3 2.3 2.7 48 11.1 5.0 54 71.2 3.3 502 3.5 5.0 1245 4 6.10 6 3.50 1 770 4 2 2 2 2 4 1 1 1 1 5.0 54 71.2 3.3 502 3.5 5.0 1245 4 61.0 6 3.50 1 705 6 4 4 5 3 40 1 10.1 5 5 55 70.4 3 3.20 3.25 5.0 1244 5 61.0 6 3.25 1 700 5 6 4 4 5 3 40 1 10.1 5 5 50 71.3 3 3.00 3.25 5.0 1242 4 61.0 6 3.25 1 700 5 6 4 4 3 3.3 2.3 2.7 42 1 10.1 5.3 60 71.3 2.7 447 3.25 5.0 1315 3.3 62.7 5.0 4.25 1.0 765 5.0 3.3 2.3 2.7 42 1 10.1 5.3 60 71.3 2.7 447 3.25 5.0 1315 3.3 62.7 5.0 4.25 1.0 765 5.0 3.3 2.3 2.7 42 1 10.1 5.3 60 71.3 2.7 447 3.25 5.0 1315 3.3 62.7 5.0 4.25 1.0 765 5.0 3.3 2.3 2.7 42 1 10.1 5.3 60 71.3 2.7 447 3.25 5.0 1315 3.3 62.7 5.0 4.25 1.0 765 5.0 3.3 2.3 2.7 42 1 10.1 5.3 60 71.3 2.7 447 3.25 5.0 1315 3.3 62.7 5.0 4.25 1.0 765 5.0 3.3 2.3 2.7 42 1 10.1 5.3 60 71.3 2.7 447 3.25 5.0 1315 3.3 62.7 5.0 4.25 1.0 765 5.0 3.3 2.3 2.7 42 1 10.1 5.3 60 71.3 2.7 447 3.25 5.0 1315 3.3 62.7 5.0 4.25 1.0 765 5.0 3.3 2.3 2.7 42 1 10.1 5.3 60 71.3 2.7 42 7 10.1 5.0 5.0 3.3 2.3 2.7 42 1 10.1 5.3 60 71.3 2.7 447 3.25 5.0 1315 3.3 62.7 5.0 4.25 1.0 765 5.0 3.3 2.3 2.7 42 1 10.1 5.3 60 71.3 2.7 42 7 10.1 5.0 5.0 3.3 2.3 2.7 7 42 10.1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0		~ 55	z .	EEG C	HE CHE		ASH	采品	张 田	TOL		ABS	· - - · . · · · · ·	MET THE		LOAF VOL		F	Ħ		A A	₽ E
12.7 4 59 66.7 6 .422 6.00 5.5 1334 4 66.0 3 6.00 3 910 3 4 2 3 43 410.0 0.00 4.25 4.8 1349 5 65.0 4 5.25 1 800 4 5 3 3 47 10.0 7 56 69.4 5 .000 5.25 5.3 1179 5 65.0 4 5.25 1 800 4 5 2 2 2 42 10.0 7 56 69.4 5 .457 3.50 5.0 1247 2 61.0 6 3.50 1 750 4 2 2 2 2 42 11.1 5.5 54 68.8 5.0 .440 4.75 5.2 1277 3.5 63.3 4.8 4.8 1.5 820 3.7 3.7 2.3 2.7 44 11.1 5.0 54 71.2 .000 4.00 5.0 1225 4 64.0 3 3.50 1 770 4 2 2 2 4 1 11.1 5.0 54 71.2 3.3 .502 3.88 5.1 1175 4.3 63.5 4.3 3.88 2.0 783 4.3 3.3 2.3 2.7 48 11.1 5.0 54 71.2 3.3 .502 3.88 5.1 1175 4.3 63.5 5.0 1 845 4.5 1 770 4 2 2 2 2 41 11.1 5.0 54 71.2 3.3 .502 3.88 5.1 1175 4.3 63.0 5 5.0 1 845 4.4 4 3 3.4 6 11.7 5 5 56 70.4 3 .420 4.50 5.0 1424 3 64.0 6 3.50 1 783 4.3 3.3 2.3 2.3 2.7 48 11.7 5 5 56 70.4 3 .420 4.50 5.0 1424 3 64.0 6 3.25 1.0 745 5.0 3.3 2.3 2.3 2.7 42 11.1 5 5 56 70.4 3 .420 4.50 5.0 1424 3 64.0 6 3.25 1.0 745 5.0 3.3 2.3 2.3 2.7 42 11.1 5 5 56 70.4 3 .420 4.50 5.0 1424 3 64.0 6 3.25 1.0 745 5.0 3.3 2.3 2.3 2.7 42 11.1 5 5 56 70.4 3 .420 4.50 5.0 1424 3 64.0 6 3.25 1.0 745 5.0 3.3 2.3 2.7 42 11.1 5 5 56 70.4 3 .420 4.50 5.0 1424 3 64.0 6 3.25 1.0 745 5.0 3.3 2.3 2.7 42 11.1 5 5 56 70.4 3 .420 4.50 5.0 1424 3 64.0 6 3.25 1.0 745 5.0 3.3 2.3 2.7 42 11.1 5 5 56 70.4 3 .420 4.50 5.0 1424 3 64.0 6 3.25 1.0 745 5.0 3.3 2.3 2.7 42 11.1 5 5 56 70.4 3 .420 4.50 5.0 1424 3 64.0 6 3.25 1.0 745 5.0 3.3 2.3 2.7 42 11.1 5 5 56 70.4 3 .420 4.50 5.0 1424 3 64.0 6 3.25 1.0 745 5.0 3.3 2.3 2.7 42 11.1 5 5 56 70.4 3 .420 4.50 5.0 1424 3 64.0 6 3.25 1.0 745 5.0 3.3 2.3 2.7 42 11.1 5 75 5.0 74.2 7.0 742 7	12.7 4 59 66.7 6 .422 6.00 5.5 1334 4 66.0 3 6.00 3 910 3 4 2 3 43 110.0 7 56 70.5 5 .000 5.25 1334 4 66.0 3 6.00 3 910 3 4 2 2 3 44 110.0 5.5 69.4 51 60.0 6 4.25 1 800 4 5 3 3 44 110.0 5.3 60.4 5 .457 3.50 5.0 1247 2 61.0 6 3.50 1 750 4 2 2 2 2 42 11.1 5.5 54 68.8 5.0 .440 4.75 5.2 1277 3.5 63.0 5.3 4.8 4.8 1.5 820 3.7 3.7 2.3 2.7 44 11.1 5.5 52 71.7 2 .000 4.00 5.0 1104 5 66.0 3 4.25 3 835 4 6 3 3 51 4 11.1 5.0 54 71.2 3.3 .000 4.25 5.5 1004 6 66.0 3 4.25 3 835 4 6 3 3 51 4 11.1 5.0 54 71.2 3.3 .502 3.50 5.0 1288 2 61.0 6 3.50 1 770 4 2 2 2 4 1 11.1 5.0 54 71.2 3.3 .502 3.50 5.0 1288 2 61.0 6 3.50 1 770 4 2 2 2 2 4 1 11.1 5.0 54 71.2 3.3 .502 3.50 5.0 1288 2 61.0 6 3.50 1 700 4 2 2 2 2 4 1 11.1 5.0 54 71.2 3.3 .502 3.50 5.0 1288 2 61.0 6 3.50 1 845 4 4 3 3 3 2.3 2.7 48 11.7 5 56 70.4 3 .420 4.50 5.0 1424 3 63.0 5 .0 1424 3 .60 6 4 4 4.50 1 700 5 .0 1424 3 .60 6 6 3.50 1 700 5 .0 1424 3 .60 6 6 1 1 700 5 .3 60 71.3 2.7 447 3.25 5.0 1935 3.3 62.7 5.0 4.25 1.0 745 5.0 3.3 2.3 2.7 42 1 10.1 5.3 60 71.3 2.7 447 3.25 5.0 1315 3.3 62.7 5.0 4.25 1.0 745 5.0 3.3 2.3 2.7 42	4%mt				**	æ		min	N.U.	臣	~	34	~	Min	. 8	8	R	R	×	R	x	
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3-4-VERY GOOD 5-ACCEPTABLE 6-7-(NESTICNABLE 8-9-UNACCEPTABLE RATINUS: 1-2=EXCELLENT COMMENTS: V=WHITE SEED

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	The following statements are made in 1974 (5 U.S.C. 552a) and the Paperwo. Application is required in order to decertificate is to be issued (7 U.S.C. 2 until certificate is issued (7 U.S.C. 2426	etermine if a plant variety protection 421). Information is held confidential
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
HybriTech U.S., a unit of Monsanto Company	W88-2619W	oro Blanco
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)
5912 N. Meridan Street	316-755-1250	316-755-0072
Wichita, Kansas 67204-1699	7. PVPO NUMBER	
8. Does the applicant own all rights to the variety? Mark an "X" in appropria	nate block. If no, please explain.	X YES NO
Is the applicant (individual or company) a U.S. national or U.S. based of if no, give name of country	отрапу?	X YES NO
	NO If no, please answer one of the	following:
a. If original rights to variety were owned by individual(s), is (are) the o	NO If no, give name of country	
b. If original rights to variety were owned by a company(ies), is(are) the	e original owner(s) a U.S. based compar	n y?
¥ES □ I	NO If no, give name of country	
11. Additional explanation on ownership (if needed, use reverse for extra s	space):	
*Please see following page.		
	Sittle Site	
PLEASE NOTE:		

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

- 1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to compete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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Exhibit E. Statement Of The Basis Of Applicant's Ownership

The variety for which Plant Variety Protection is hereby sought was developed by Dr. John Moffatt, an employee of Agripro Seeds, Inc. By agreement between employees and Agripro Seeds, Inc., all rights to any invention, discovery, or development made by the employee while employed by Agripro Seeds, Inc., were assigned to Agripro Seeds, Inc., with no rights of any kind pertaining to 'Oro Blanco' being retained by the employees.

By contractual agreement the variety 'Oro Blanco' is currently owned by HybriTech Seed International, a unit of Monsanto Company and licensed to Agripro Seeds, Inc. for commercial use.